CALFED Science Program Workshops Science Issues Relating to Delta Conveyance Infrastructure

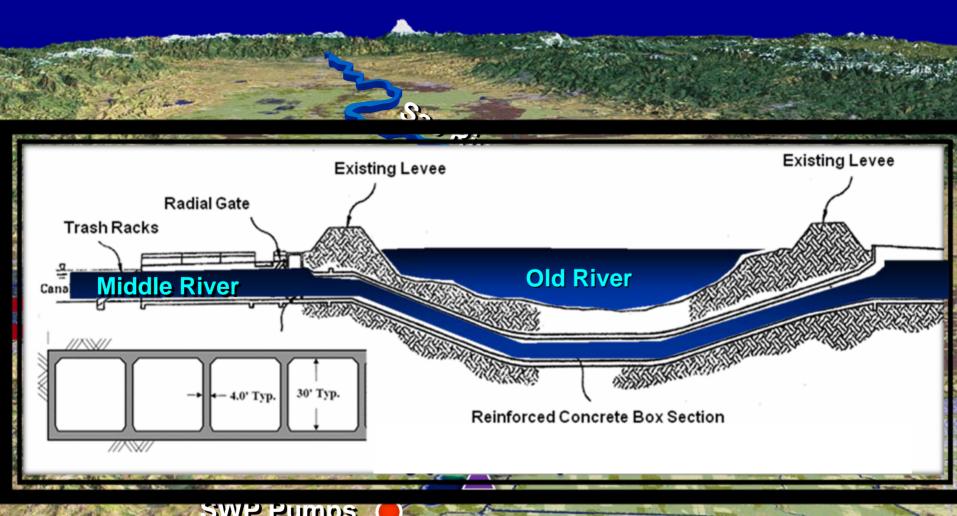
Design and Operation Issues

Dennis Majors
Metropolitan Water District of Southern California
August 22, 2007











Emergency Freshwater Pathway Concept





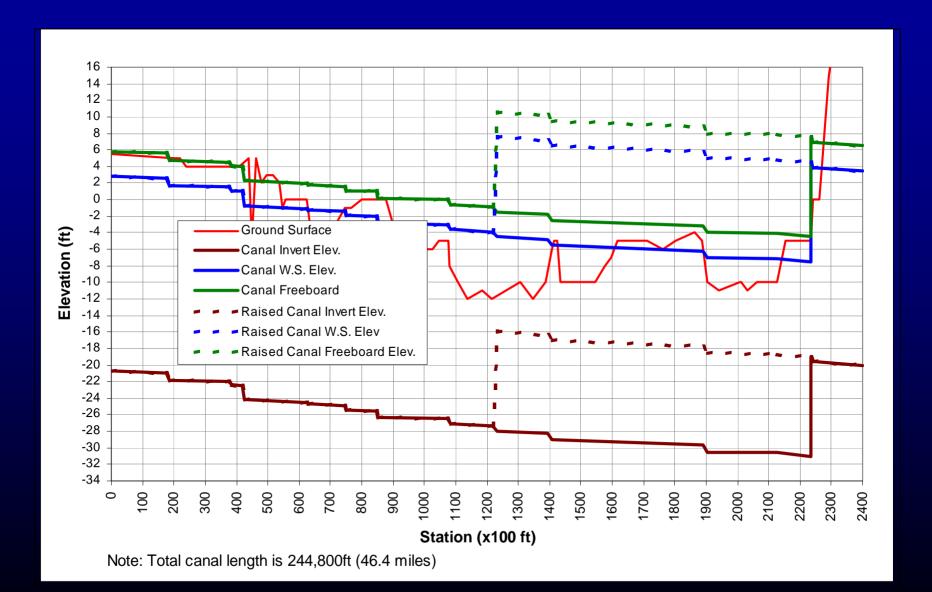
Dual-Intake Conveyance



Fully Isolated Conveyance

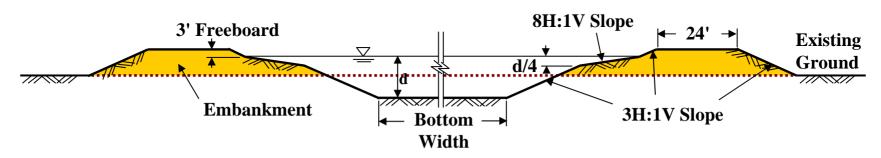


Incised and Raised Canal Profiles

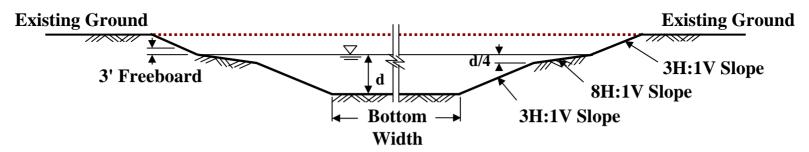


Typical Canal Cross Sections

(North of San Joaquin River)



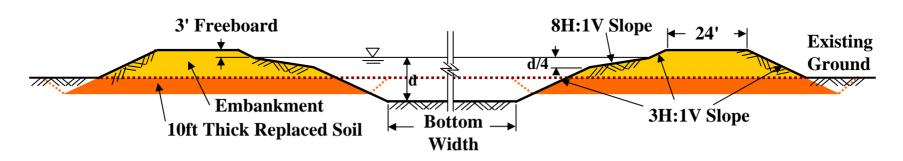
Typical Canal Section with Fill Embankment
Not to Scale



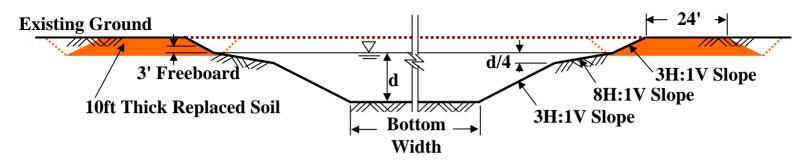
Typical Canal Section with No Fill Embankment Not to Scale

Typical Canal Cross Sections

(South of San Joaquin River)

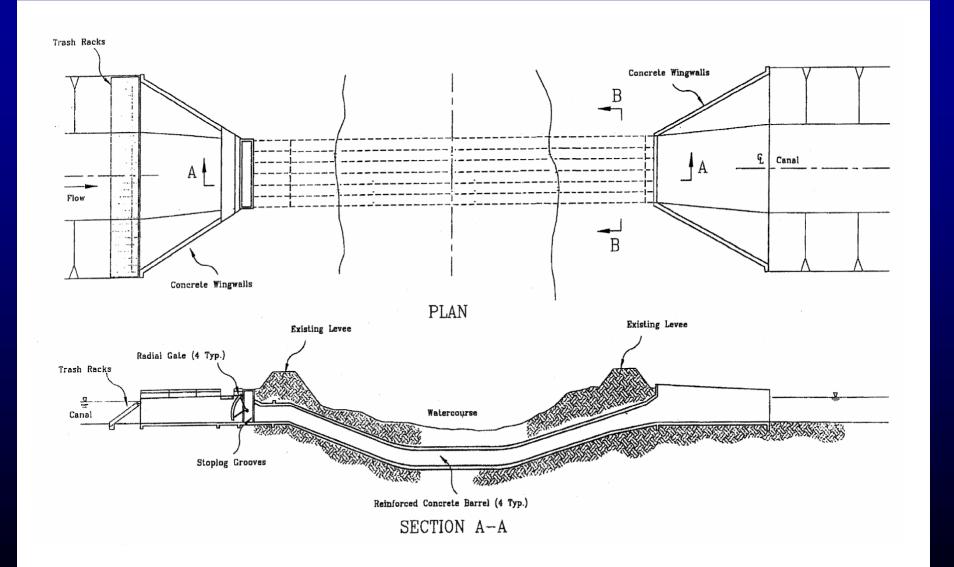


Typical Canal Section with Fill Embankment
Not to Scale

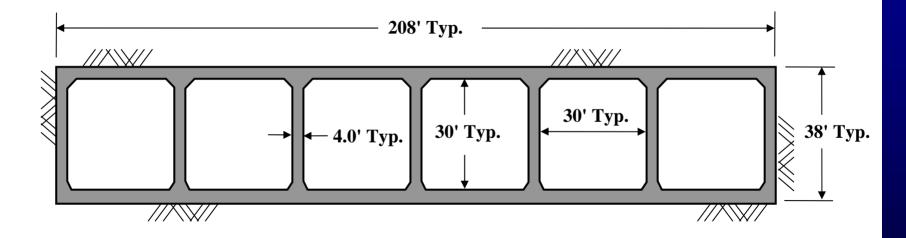


Typical Canal Section with No Fill Embankment Not to Scale

Typical Siphon Plan & Cross Section



Typical Siphon Cross Section



Typical Siphon Section
Not to Scale

Operational Considerations

Description	Eco- crescen	nt	Dual-Intake Conveyance	Fully Isolated Conveyance
Diversion Location				
Sizing (cfs)				
Connections				
Future Projects				
Export Ops / Demands				
Delta / Suisun Standards				
Contractual Obligations				
Delta Geometry				
Fish Screen Type				

